

Outcomes for Career Ready High School Graduates

The purpose of this report is to study the impact of career and technical education on postsecondary and workforce outcomes for 2012-13 Kentucky public high school graduates. This report examines the outcomes of the four indicators as defined by the Kentucky Department of Education (KDE): (1) Career Ready Only, (2) College and Career Ready, (3) College Ready Only, or (4) Neither College nor Career Ready.

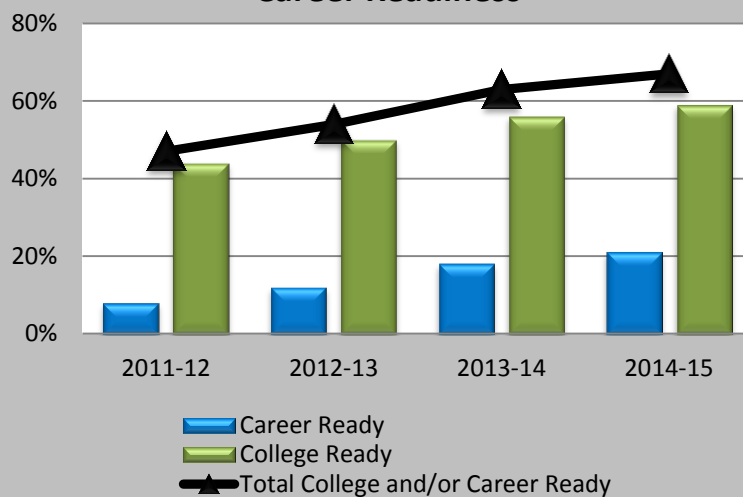
Results emphasize the importance and urgency of ensuring that all Kentucky students are able to meet ambitious and meaningful College and/or Career Ready standards.

HIGHLIGHTS

- **11%** of the graduating class of 2013 met **Career Ready Standards**.
- **67.5%** of students meeting career ready standards pursued **postsecondary education**.
- Students that were both College and Career Ready were **twice as likely to have a 3.0 GPA or higher**.
- **24%** of students meeting Career Ready standards **entered the workforce**.
- Income of Career Ready students varied greatly based on their industry of employment. Students working in **Manufacturing, Construction, or Wholesale Trade** earned **twice as much** as those working in Retail or Accommodation.
- Outcomes for students meeting College and/or Career Ready standards have **significantly better outcomes in terms of income and postsecondary success**.

A College Ready student, as defined by KDE, is a student who has met the Council on Postsecondary Education (CPE) benchmarks on the ACT, COMPASS, or KYOTE in Reading, Mathematics and English. A Career Ready student, as defined by KDE, is a student who is preparatory in a Career and Technical Education career pathway and has reached the benchmarks on WorkKeys or ASVAB and KOSSA or an Industry Certification. Preparatory students have completed two career and technical education credits in a preparatory program and are enrolled in the third credit course (s).

Four Year Trend for Kentucky High School Graduates' College and/or Career Readiness



Specific Student Populations for 2012-13 Kentucky High School Graduates

The data are collected from the Kentucky Department of Education, with each student record containing a College and/or Career Readiness indicator. As reflected in the flow chart, indicators are determined by college and career readiness. Career readiness includes all public high school students graduating in the academic year 2012-13 who have reached benchmarks to be considered as Career Ready Only and also those who have met the requirements to be considered both College and Career Ready. The students identified not Career Ready include College Ready Only students and Neither College nor Career Ready, who are students not meeting the requirements for either College or Career Readiness.

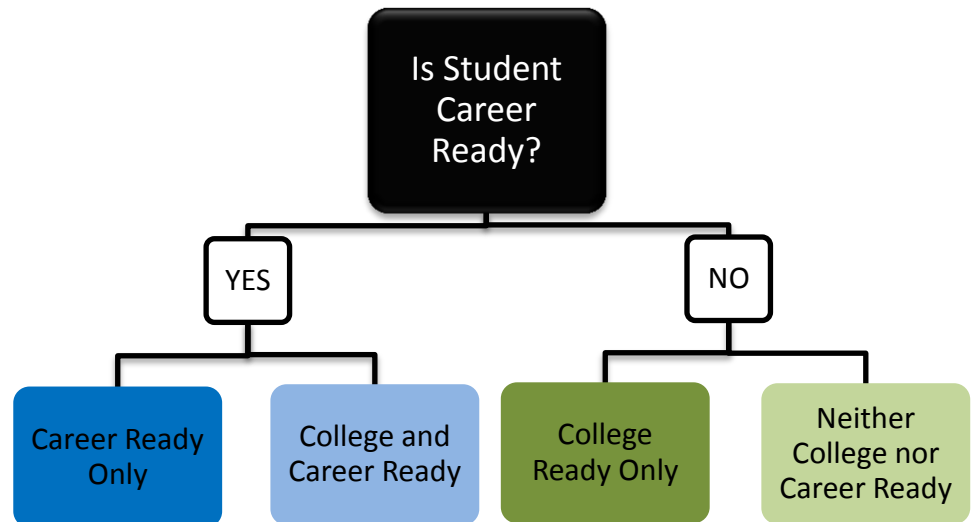
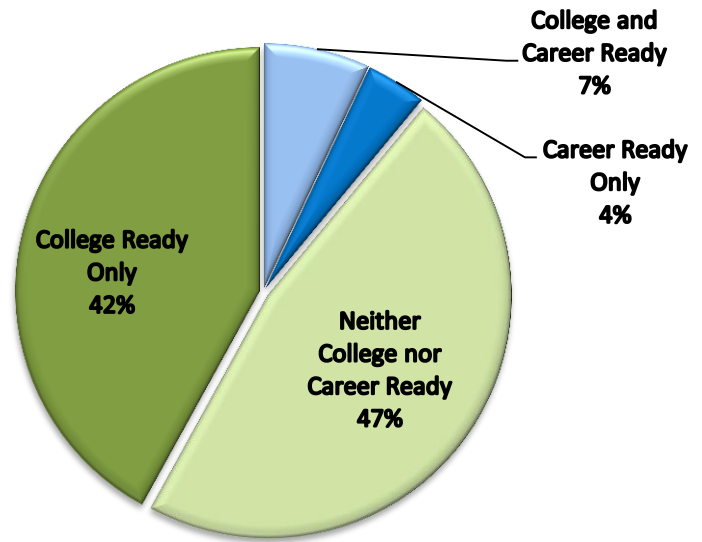


Table 1.1 Specific Student Populations for 2012-13 Graduates by College/Career Readiness

		Met Career Ready Standards				Did Not Meet Career Ready Standards			
Characteristics	Characteristic Totals	Career Ready Only		College and Career Ready		College Ready Only		Neither College nor Career Ready	
		Number Career Ready Only	% Career Ready	Number College and Career Ready	% College and Career Ready	Number College Ready Only	% College Ready Only	Number Neither College nor Career Ready	% Neither College nor Career Ready
Gender									
Females	21,863	746	3%	1,486	7%	9,868	45%	9,763	45%
Males	22,109	1,163	5%	1,606	7%	8,518	39%	10,822	49%
Total	43,972	1,909	4%	3,092	7%	18,386	42%	20,585	47%
Race/Ethnicity									
Caucasian	36,244	1,783	5%	2,885	8%	15,712	43%	15,864	44%
African American	4,512	62	1%	75	2%	1,230	27%	3,145	70%
Hispanic	1,451	29	2%	51	4%	557	38%	814	56%
Other	1,765	35	2%	81	5%	887	50%	762	43%
Total	43,972	1,909	4%	3,092	7%	18,386	42%	20,585	47%
Free/Reduced Lunch	21,582	1,142	5%	1,267	6%	5,947	28%	13,226	61%
Special Education	1,216	27	2%	13	1%	113	9%	1,063	87%

100%

Chart 1.2 College and Career Readiness of All 2012-13 KY Public High School Graduates



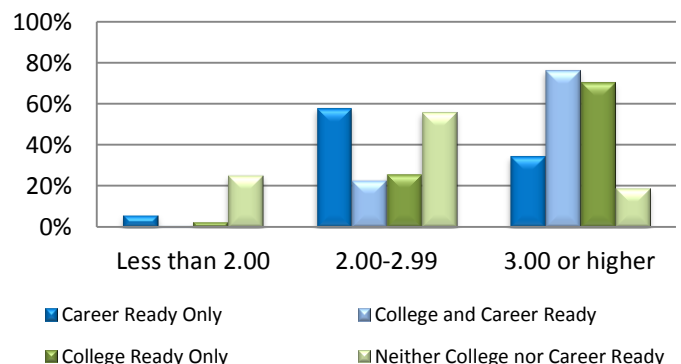
- Forty-seven percent of all Kentucky high school graduates in 2012-13 were considered Neither College nor Career Ready.
- No significant gender difference occurs for 2012-13 in terms of college and career readiness.
- More than 50% of 2012-13 high school graduates in the following specific student population categories are considered to be Neither College nor Career Ready: African American (70%), Hispanic (56%), Free and Reduced Lunch (61%), and Special Education (87%).

Table 1.3 Academic Performance for 2012-13 High School Graduates by College/Career Readiness

		Met Career Ready Standards				Did Not Meet Career Ready Standards			
Characteristics	Characteristic Totals	Career Ready Only		College and Career Ready		College Ready Only		Neither College nor Career Ready	
		Number	%	Number	%	Number	%	Number	%
		Career Ready Only	% Career Ready	College and Career Ready	% College and Career Ready	College Ready Only	% College Ready Only	Neither College nor Career Ready	% Neither College nor Career Ready
GPA at High School Graduation									
Less than 2.00	5,891	114	6%	33	1%	515	3%	5,229	25%
2.00 - 2.49	8,051	469	25%	179	6%	1,504	8%	5,899	29%
2.50 - 2.99	10,057	633	33%	515	17%	3,393	18%	5,516	27%
3.00 or higher	19,943	663	35%	2,365	76%	12,974	71%	3,941	19%

- The majority of the 2012-13 high school graduates considered to be College and Career Ready (76%) or College Ready Only (71%) are reported as having a graduating high school GPA of 3.00 or higher.
- The majority of students who were either College and/or Career Ready graduated with a GPA of 2.5 or higher while over half of the students who were Neither College nor Career Ready graduated with a GPA of 2.49 or lower.

Chart 1.4 High School GPA by College/Career Readiness



Educational Outcomes for Graduates Enrolled in Postsecondary in 2013-14

Educational outcomes for students who enrolled in postsecondary in any capacity during the academic year 2013-14 are included in this report. The Council on Postsecondary Education (CPE) provided data for all in-state public and independent higher education institutions. The National Student Clearinghouse was used for out-of-state and in-state proprietary higher education enrollments. College enrollment is defined as a student being enrolled at a higher education institution for any number of course credit hours. If a student was enrolled in a course at an in-state institution as well as an out-of-state institution, this student would be represented in the numbers for both categories of enrollment. GPA data are only available for in-state two and four year public institutions.

Table 2.1: 2013-14 Postsecondary Enrollment by College/Career Readiness

Characteristics	Characteristic Totals	Met Career Ready Standards				Did Not Meet Career Ready Standards			
		Career Ready Only		College and Career Ready		College Ready Only		Neither College nor Career Ready	
		Number Career Ready Only	% Career Ready	Number College and Career Ready	% College and Career Ready	Number College Ready Only	% College Ready Only	Number Neither College nor Career Ready	% Neither College nor Career Ready
Enrolled in Postsecondary	26,521	908	3%	2,467	9%	15,281	58%	7,865	30%
In-State	24,374	866	4%	2,350	10%	13,873	57%	7,285	30%
Out-of-State	2,329	44	2%	133	6%	1,519	65%	633	27%
In-State Postsecondary Breakdown*									
4 year public	11,900	201	2%	1,173	10%	8,487	71%	2,039	17%
2 year public	9,837	594	6%	910	9%	3,752	38%	4,581	47%
4 year independent	3,315	84	3%	369	11%	2,118	64%	744	22%
Proprietary	140	10	7%	7	5%	40	29%	83	59%
Student Status*									
Full-time	19,077	676	4%	1,932	10%	11,367	60%	5,102	27%
Part-time	2,110	105	5%	75	4%	521	25%	1,409	67%

*Note the student totals contain in-state students only that may also be enrolled in out-of-state postsecondary.

- The majority of students enrolling in postsecondary are considered College Ready Only (58%) compared to Neither College nor Career Ready (30%) and the other groups at less than 10%.
- A higher percentage of College Ready Only graduates are enrolling in 4 year public (71%) and 4 year independent (64%) institutions while a higher percentage of Neither College nor Career Ready students are enrolling in 2 year public (47%) and proprietary (59%).
- Full-time student status is comprised of 60% College Ready Only students while the part-time student status group contains 67% Neither College nor Career Ready students.

Table 2.2 Postsecondary Outcomes for 2012-13 Graduates by College/Career Readiness

		Met Career Ready Standards				Did Not Meet Career Ready Standards			
Characteristics	Characteristic Totals	Career Ready Only		College and Career Ready		College Ready Only		Neither College nor Career Ready	
		Number Career Ready Only	% Career Ready	Number College and Career Ready	% College and Career Ready	Number College Ready Only	% College Ready Only	Number Neither College nor Career Ready	% Neither College nor Career Ready
College GPA									
Less than 2.00	7,147	349	45%	448	22%	2,900	24%	3,450	53%
2.00 - 2.99	5,785	242	31%	535	27%	3,295	28%	1,713	26%
3.00 or higher	8,255	190	24%	1,024	51%	5,693	48%	1,348	21%
			100%						

- The largest percentage of students who were considered College and Career Ready (51%) or College Ready Only (48%) attained a college GPA of 3.00 or higher. Over half of the students enrolling in postsecondary who were Neither College nor Career Ready students (53%) had a College GPA lower than 2.00.

Workforce Outcomes for Students Not Enrolled in Postsecondary in 2013-14

The employment data for high school graduates not enrolled in postsecondary at any point during 2013-14 academic year are included from the Unemployment Insurance (UI) Wage System. Data are reported quarterly for all in-state employment for those businesses paying unemployment insurance. Therefore, some employment may not be captured if the employer is not in the UI System or if the employment is out-of-state. Industry is determined from the reported employment with the highest earning quarter over the course of the year. The table below indicates the median income for students not enrolled in postsecondary but employed in the state of Kentucky during 2013-14 fiscal year.

Table 3.1 Employment Outcomes for Graduates Not Enrolling in Postsecondary by College/Career Readiness

		Met Career Ready Standards		Did Not Meet Career Ready Standards	
Characteristics		Career Ready Only	College and Career Ready	College Ready Only	Neither College nor Career Ready
Employment 1 Year Out for Those Not Enrolling in Postsecondary		766 (77%)	443 (71%)	2,256 (73%)	8,719 (69%)
Median wages		\$8,882	\$9,033	\$7,151	\$6,577
25th percentile		\$3,867	\$3,638	\$2,812	\$2,440
75th percentile		\$15,915	\$14,340	\$12,095	\$12,191

- Of those 2012-13 graduates who did not enroll in postsecondary in 2013-14, **Career Ready graduates employed in the state of Kentucky overall are earning more income one year removed from high school than College Ready Only and Neither College nor Career Ready graduates.**

3.2 Median Income One Year Removed from High School Who Did Not Enroll in Postsecondary

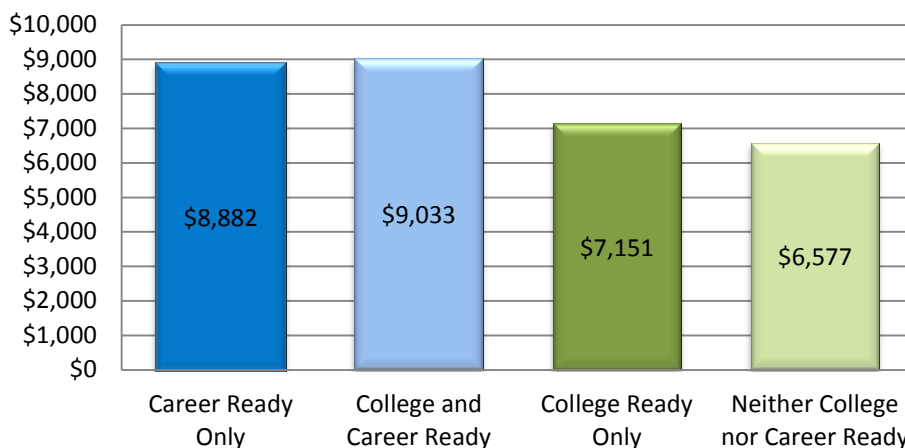
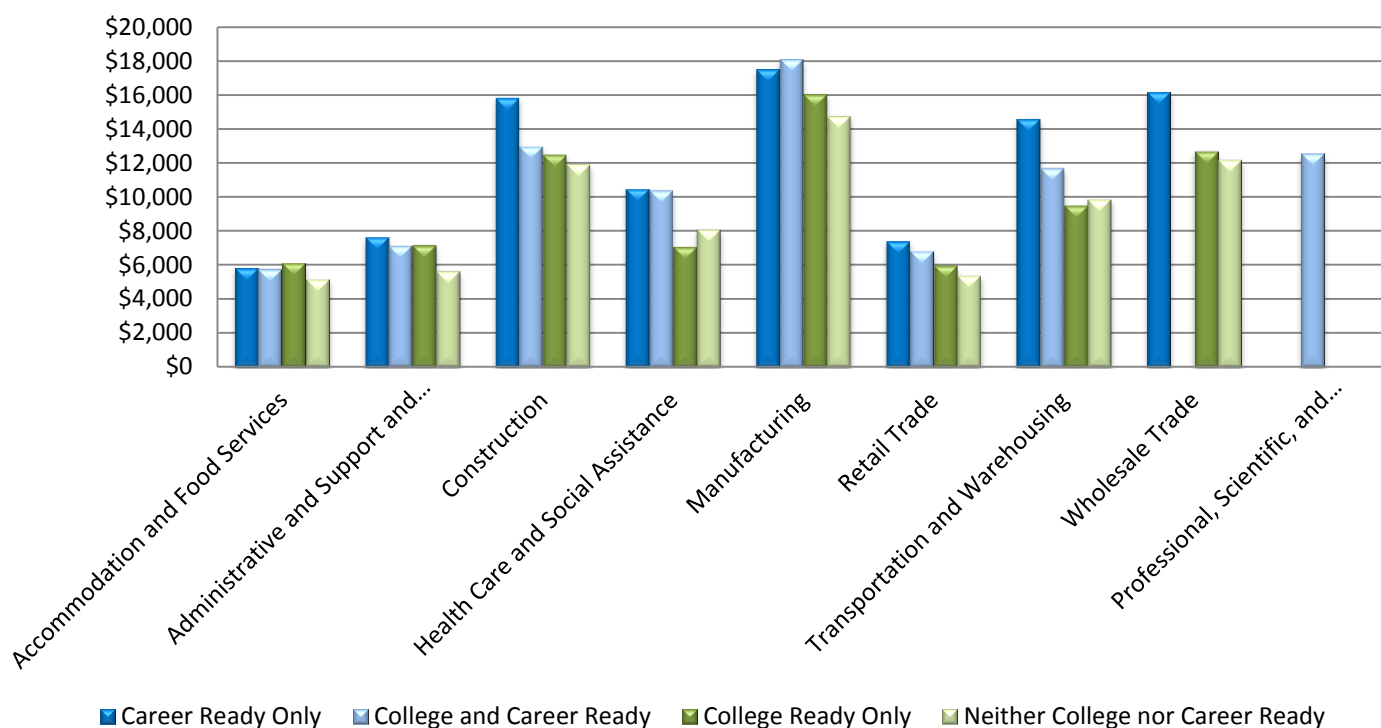


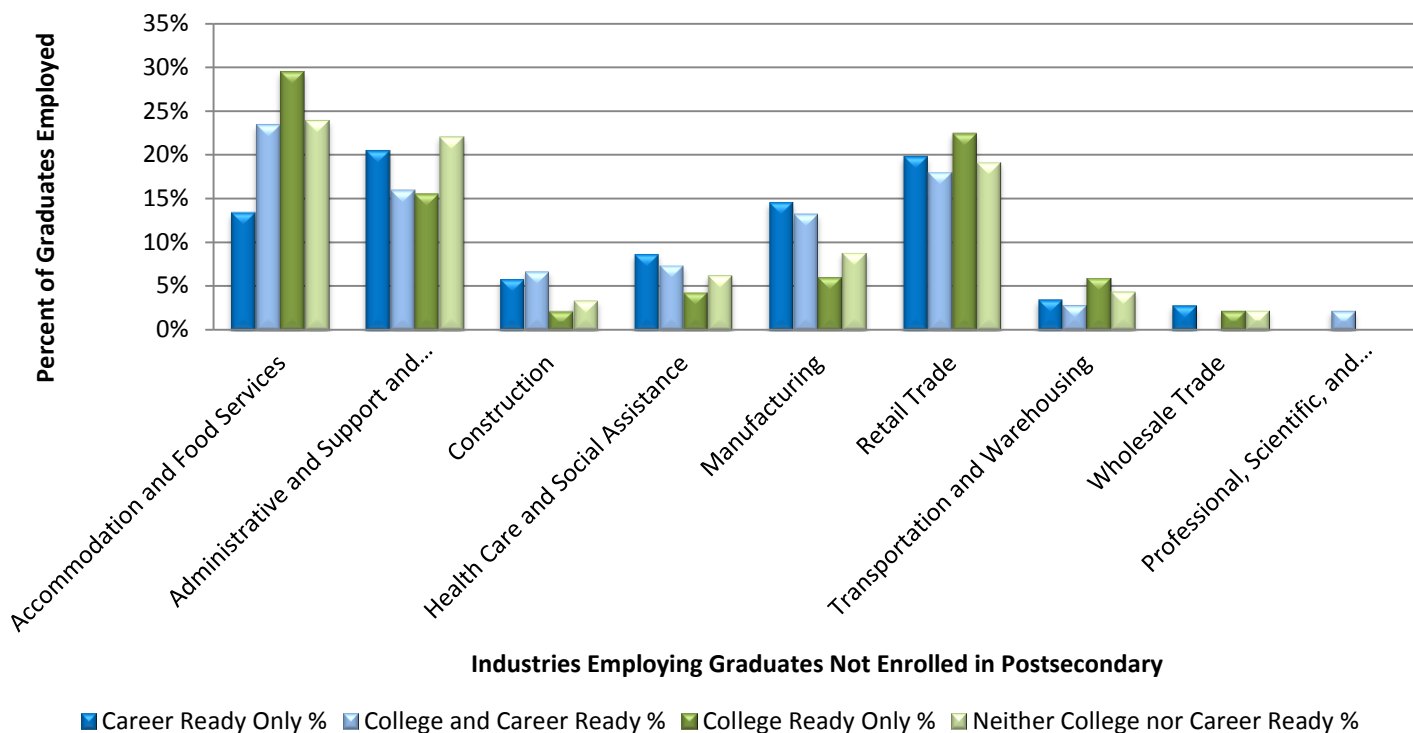
Chart 3.3 Median Income by Industry for College/Career Ready Graduates Who Did Not Enroll in Postsecondary



- Manufacturing is the highest earning industry employing Kentucky graduates who did not enroll in postsecondary and are one year removed from high school - with the highest median income earned by those considered to be both College and Career Ready followed closely by Career Ready.
- Professional, Scientific, and Technical Services is among the top eight industries employing graduates in Kentucky for only the College and Career Ready group.
- The median income for Career Ready graduates is higher for each industry except Accommodation and Food Services.

- Career Ready graduates employed in Construction, Health Care and Social Assistance, Transportation and Warehousing, and Wholesale Trade earn at least \$2,000 median income higher than those employed in the same industry and who were considered College Ready Only or Neither College nor Career Ready.

Chart 3.4 Industries of Graduates Employed in Kentucky



- The top three industries employing the graduates who do not enroll in postsecondary in 2013-14 are Accommodation and Food Services, Administrative and Support and Waste Management and Remediation Services, and Retail Trade.
- At least 5% more College Ready Only graduates who did not enroll in postsecondary are being employed in the Accommodation and Food Services industry than the other three groups. The manufacturing industry is employing at least 5% more Career Ready Only graduates who did not enroll in postsecondary than the other two groups.

The Kentucky Center for Education and Workforce Statistics (KCEWS) collects and links data to evaluate education and workforce efforts in the Commonwealth. This includes developing reports and providing statistical data about these efforts so policy makers, agencies, and the general public can make better informed decisions.

For more information, please visit <http://kcews.ky.gov> or follow @KYEdWorkStats